

RECEIVER AND METHOD FOR A
MULTICHANNEL OPTICAL COMMUNICATION SYSTEM

ABSTRACT OF THE DISCLOSURE

A method and system for transmitting information in a wavelength division multiplex (WDM) or other suitable multichannel optical communication system includes
5 receiving a multichannel signal having a symbol rate and comprising a plurality of non-intensity modulated optical information signals. The non-intensity modulated optical information signals have a minimum channel spacing comprising a multiple of the symbol rate within 0.4 to
10 0.6 of an integer. The non-intensity modulated optical information signals are separated from the multichannel signal and each converted into an intensity modulated optical information signal using an asymmetric interferometer. A data signal is recovered from the
15 intensity modulated optical information signal.